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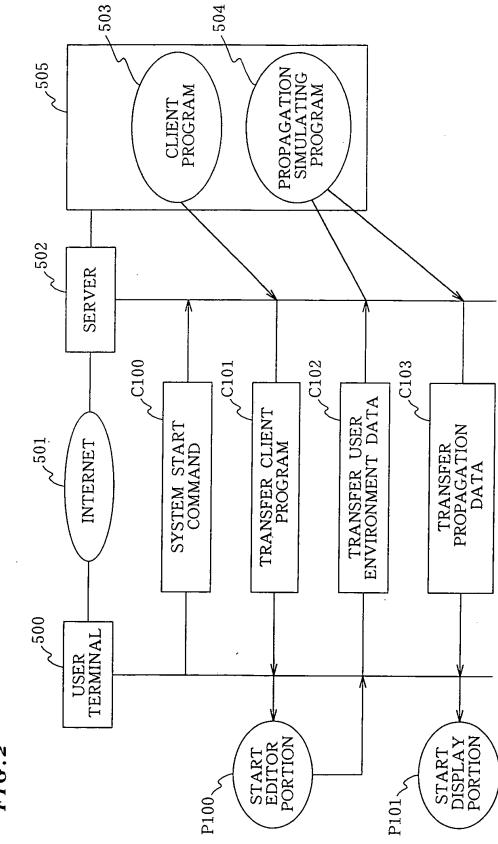
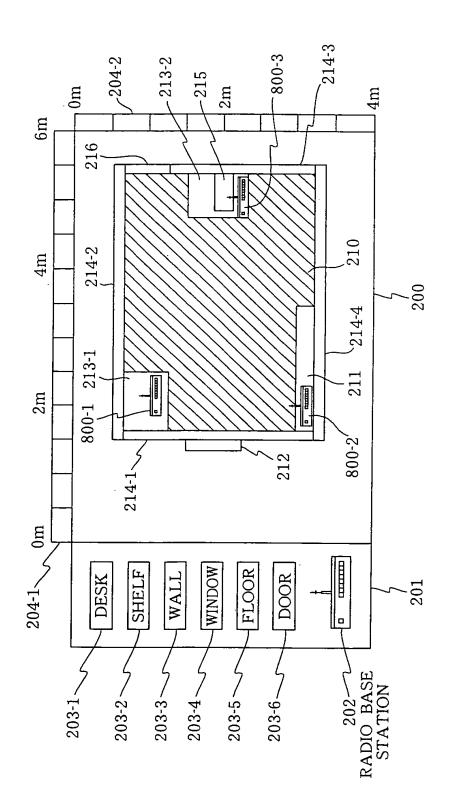


FIG.2

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FIG.3





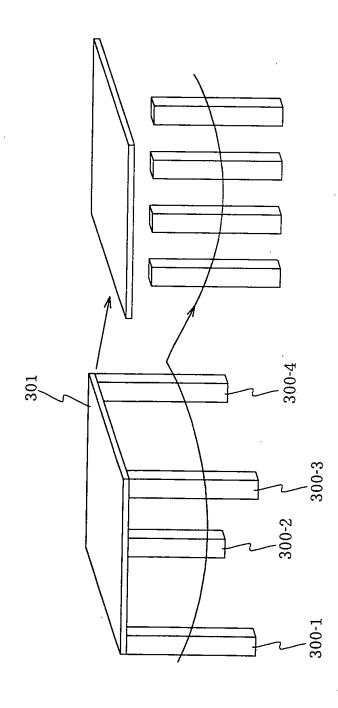


FIG.5

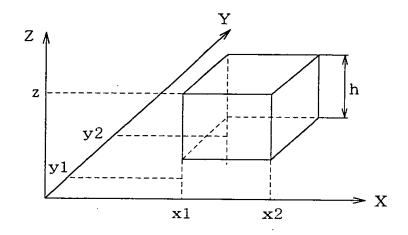


FIG.6

	РО	SITION	MATERIAL			
x 1	x 2	у1	y 2	z	h	
1.5	2.1	1.2	1.2	1.2	0.05	METAL
1.5	1.6	1.2	1.3	1.15	0.8	TIMBER
	<u>:</u>	:	:		:	:
2.0	2.1	1.2	1.3	1.15	0.8	TIMBER

FIG.7

POSIC	rion(m	ETER)	ANTENNA	SENDING ELECTRIC
x	у	z		POWER
3.0	1.5	1.0	DIBALL	100mW

FIG.8

				RECEIPT	→ ELECTRIC POWER
	POSSIBLE	GOOD	GOOD VERY GOOD		RECEIPT ELECTRIC POWER THRESHOLD VALUE 3
	POSSIBLE	GOOD	VERY GOOD	VERY GOOD	RECEIPT RECI ELECTRIC ELEC POWER POV THRESHOLD THRES
	IMPOSSIBLE	POSSIBLE	. GOOD	G00D	
ARIANCE	IMPOSSIBLE	IMPOSSIBLE	POSSIBLE	POSSIBLE	RECEIPT ELECTRIC POWER THRESHOLD VALUE 1
DELAY VARIANCE	DELAY VARIANCE	VALUE 3 DELAY VARIANCE	THRESHOLD VALUE 2 DELAY VARIANCE	THRESHOLD VALUE 1	J

FIG.9

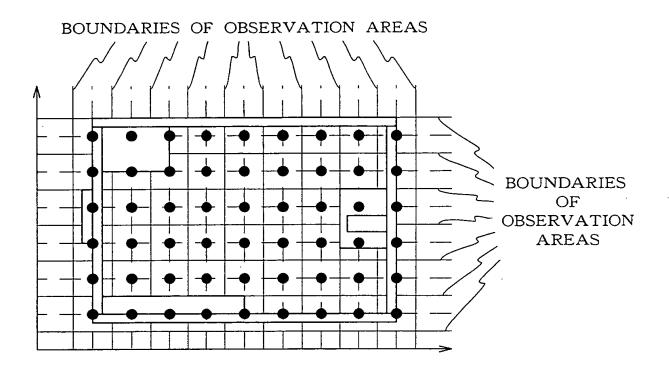


FIG.10

OBSE	RVATI	ON AR	EA		COMMUNICATION
HEIGHT ABOVE FLOOR	x1	x 2	у1	у2	COMMUNICATION POSSIBILITY
	0 cm	10 cm	0 cm	10 cm	IMPOSSIBLE
100 cm	0 cm	10 cm	10 cm	20 cm	POSSIBLE
	0 cm	10 cm	20 cm	30 cm	GOOD
	0 cm	10 cm	30 cm	40 cm	VERY GOOD
	•	•	• • •	•	•

FIG.11

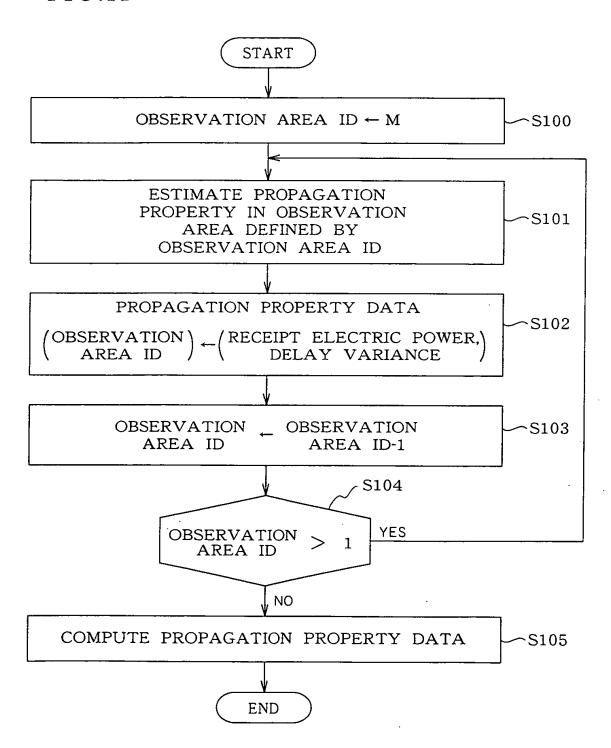


FIG.12

OBSERVATION AREA ID	RECEIPT ELECTRIC POWER	DELAY VARIANCE
1	-60 dBm	20 NANOSECONDS
2	-65 dBm	150 NANOSECONDS
3	-68 dBm	30 NANOSECONDS
4	-72 dBm	200 NANOSECONDS
5	-88 dBm	20 NANOSECONDS
•	•	•
М		

FIG.13

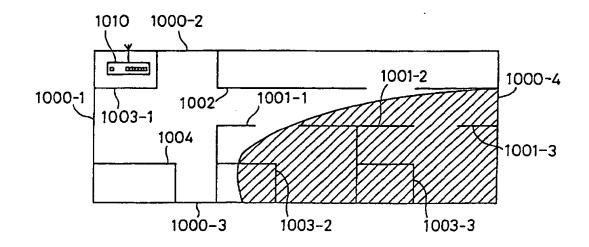


FIG.14

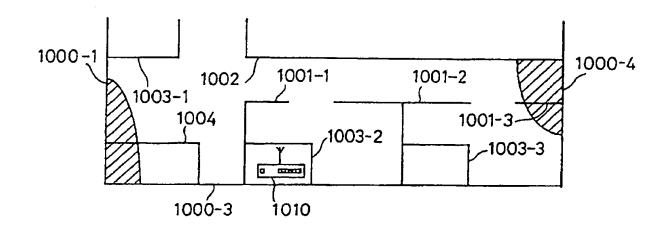


FIG.15

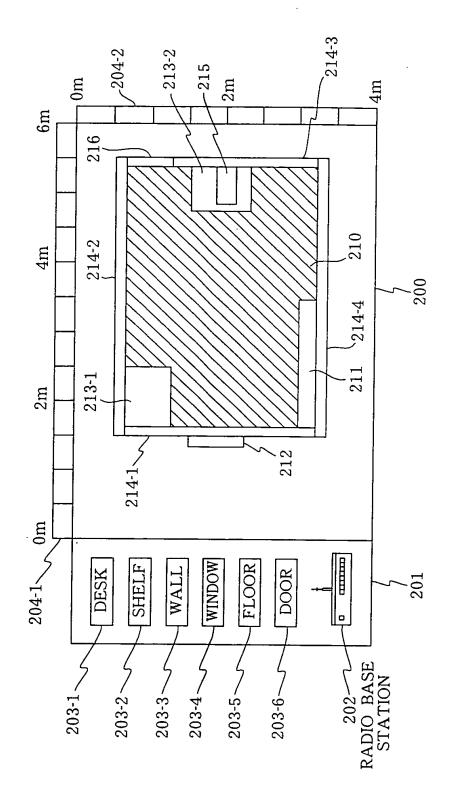
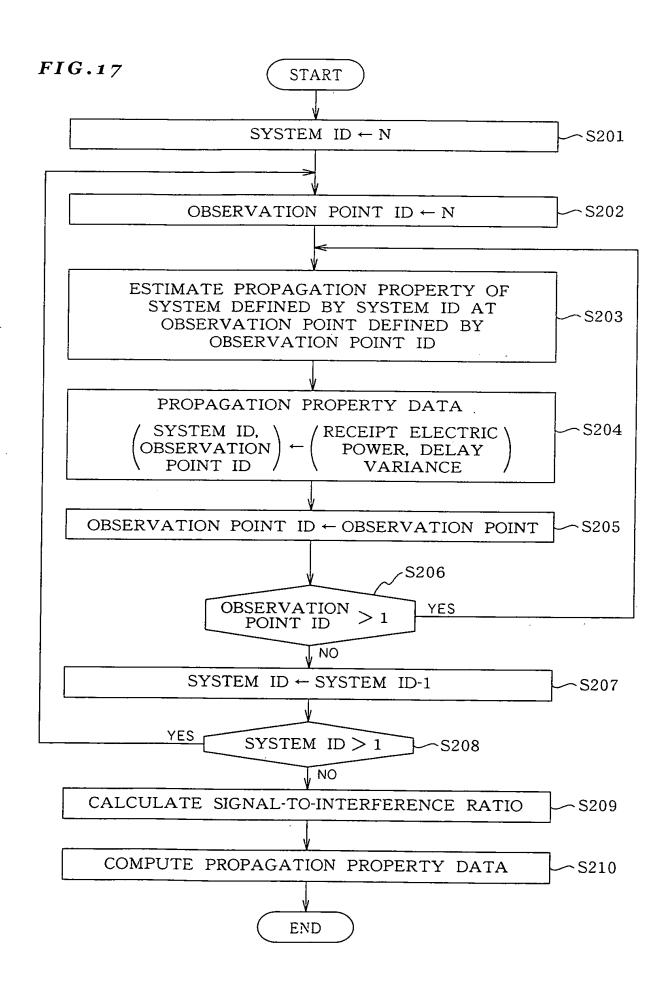


FIG. 16

TYPE OF SYSTEM	POSI	POSITION (METER)	TER)	ANTENNA	SENDING
	×	λ	2		ELECTRIC POWER
HIGH SPEED WIRELESS LAN	2.0	1.0	1.0	DIBALL	100 mW
SHORT RANGE RADIO	3.0	2.0	1.0	DIBALL	1 mW
MICROWAVE OVEN	1.0	1.5	1.0	 	20 mW

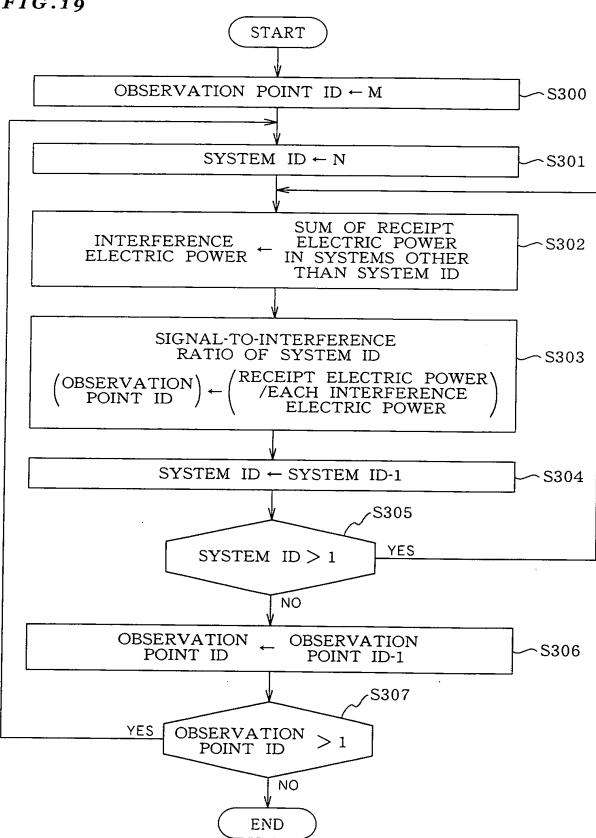


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						,		
1 ID=3	DELAY VARIANCE	120 NANO SECONDS	80 NANO SECONDS	80 NANO SECONDS	100 NANO SECONDS	80 NANO SECONDS	• • • •	
SYSTEM	RECEIPT ELECTRIC POWER	-88 dBm	–90 dBm	–88 dBm	86 dBm	–88 dBm	• • • •	
1 ID=2	DELAY VARIANCE	20 NANO SECONDS	40 NANO SECONDS	80 NANO SECONDS	60 NANO SECONDS	20 NANO SECONDS	• • • •	
SYSTEM	RECEIPT ELECTRIC POWER	-88 dBm	-88 dBm	70 dBm	-88 dBm	-70 dBm	• • • •	
EM ID=1	DELAY VARIANCE	20 NANO SECONDS	150 NANO SECONDS	30 NANO SECONDS	200 NANO SECONDS	20 NANO SECONDS	• • •	
SYSTEN	RECEIPT ELECTRIC POWER	-60 dBm	–65 dBm	–68 dBm	–72 dBm	–88 dBm	• • •	
	OBSERVATION POINT ID		7	8	4	5	• • •	M

FIG.19



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				,		·				
	IN- DIVIDUA CI RATIO (ID=2)	gp0	-2dB	-18dB	2dB	-18dB		•	•	
)=3	TOTAL IN- IN- CI DIVIDUAL DIVIDUA CI RATIO CI RATIO C (ID=1) (ID=2)	-28dB	-25dB	-20dB	-14dB	0dB		•	•	
SYSTEM ID=3	TOTAL CI RATIO		-25dB	-22dB	-14dB	-18dB		•	•	
SYS	TOTAL INTER- FERENCI ELECTRI POWER	-60dBm -28dB	-65dBm -25dB	-66dBm	-72dBm -14dB	-88dBm -70dBm-18dB		•	•	
	CEIPT	-88dBm	-90dBm	-88dBm	-86dBm	-88dBm		•	•	
	IN- DIVIDUA CI RATIO (ID=3)	0dB	2dB	18dB	-2dB	18dB		•	•	
SYSTEM ID=2	TOTAL IN- IN- RE CI DIVIDUAL DIVIDUA ELE E RATIO CI RATIO P(C (ID=1) (ID=3)	-28dB	-23dB	-2dB	-16dB	18dB		•	•	
	TOTAL CI RATIO	-28dB	-23dB	-2dB	-16dB	15dB		•	•	
SYS.	TOTAL INTER- FERENCI ELECTRI	-60dBm -28dB	-65dBm	-68dBm	-72dBm -16dB	-85dBm		•	•	
	RECEIPT ELECTRIC POWER	-88dBm	-88dBm	-70dBm	-88dBm	B -70dBm		•	• -	
	IN- DIVIDUA CI RATIO (ID=3)	28dB	25dB	20dB	14dB	apo		•	•	
)=1	TOTAL IN- IN- CI DIVIDUAL DIVIDUA RATIO CI RATIO CI RATI((ID=2) (ID=3)	28dB	23dB	2dB	16dB	-18dB	•	•	•	
SYSTEM ID=1	TOTAL CI RATIO	25dB	21dB	2dB	12dB	-18dB	٠	•		
SYS	TOTAL INTER- ERENCE ELECTRIC POWER	60dBm -85dBm	-65dBm -86dBm	-68dBm -70dBm	-72dBm -84dBm	-70dBm -18dB	•	•	•	
	RECEIPT ELECTRIC POWER	-60dBm	-65dBm	-68dBm	-72dBm	-88dBm	•	•	•	
	OBSERVATION ELECTRIC POINT ID POWER F	-	2	င	4	5				×

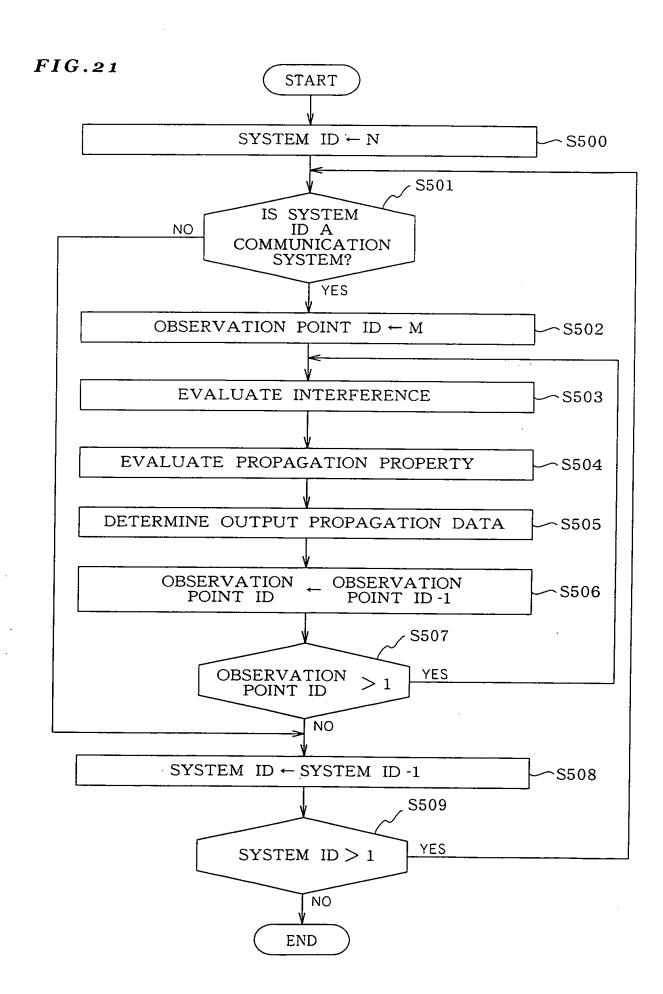


FIG.22

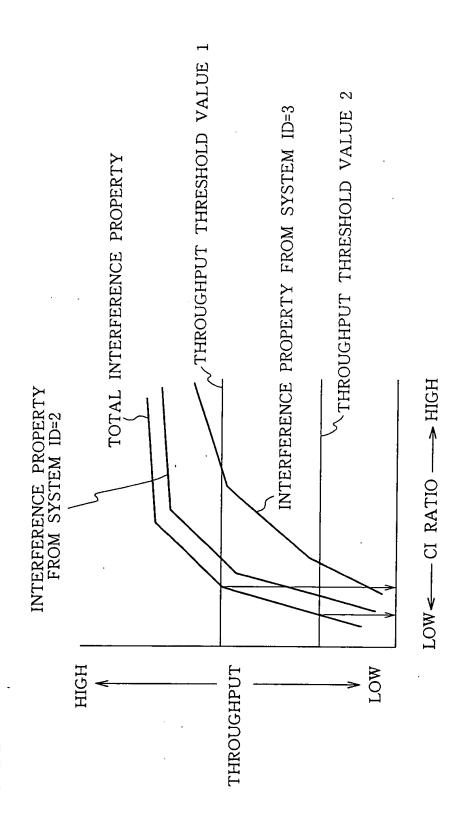


FIG.23

	,	-,	1	,	<u>, </u>			·
SIBILITY	SYSTEM ID=3	В	U	D	A	•	• •	•
COMMUNICATION POSSIBILITY	SYSTEM ID=1 SYSTEM ID=2 SYSTEM ID=3	A	Q	C	В	• •	•	•
СОММОІ	SYSTEM ID=1	၁	A	D	В	• •	•	•
	y2	10 cm	20 cm	30 cm	40 cm	• •	•	•
	y1	0 cm	10 cm 10 cm 20 cm	10 cm 20 cm	10 cm 30 cm 40 cm	• •	•	•
REA	x2	10 cm	10 cm	10 cm	10 cm		•	•
ION A	x1	0 cm	0 cm	0 cm	0 cm	• •	•	•
OBSERVATION AREA	OBSERVATION POINT ID	-	2	င	4	• •	•	•
	HEIGHT ABOVE FLOOR			100 cm				

FIG.24

INTERFERENCE DEGRADATION LEVEL RECEIPT POSSIBILITY	LARGE	MIDDLE	SMALL
VERY GOOD	D	В	A
GOOD	D	С	В
POSSIBLE	D	D	С
IMPOSSIBLE	D	D	D

FIG.25

COLOR NUMBER	NAME
CL000	LIGHT RED
CL001	LIGHT YELLOW
CL002	LIGHT GREEN
CL003	LIGHT BLUE
CL004	SLIGHTLY DARK RED
CL005	SLIGHTLY DARK YELLOW
CL006	SLIGHTLY DARK GREEN
CL007	SLIGHTLY DARK BLUE

COLOR NUMBER	NAME
CL008	SEMI-DARK RED
CL009	SEMI-DARK YELLOW
CL010	SEMI-DARK GREEN
CL011	SEMI-DARK BLUE
CL012	DARK RED
CL013	DARK YELLOW
CL014	DARK GREEN
CL015	DARK BLUE

FIG.26

DELAY VARIANCE

DELAY VARIANCE	CL015	CL011	CL007	CL003		
THRESHOLD VALUE 3 DELAY VARIANCE	CL014	CL010	CL006	CL002		
THRESHOLD VALUE 2 DELAY VARIANCE	CL013	CL009	.CL005	CL001		
THRESHOLD VALUE 1	CL012	CL008	CL004	CL000 RECEIPT ELECTRIC		
RECEIPT RECEIPT POW ELECTRIC ELECTRIC POWER POWER POWER THRESHOLD THRESHOLD VALUE 1 VALUE 2 VALUE 3						

FIG.27

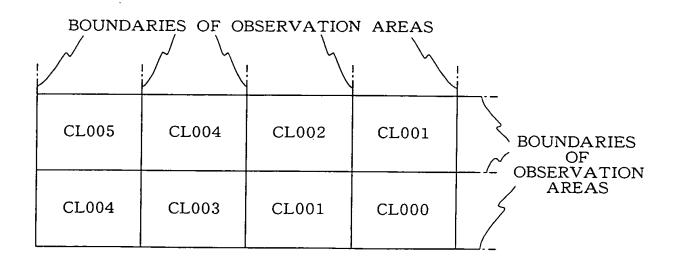


FIG.28

COLOR NUMBER	NAME			
CL000	RED			
CL001				
CL002	_			
CL003	YELLOW			
CL004	BLUISH YELLOW			
CL005	·			
CL006	BLUE			
CL007	GREENISH BLUE			

COLOR NUMBER	NAME
CL008	BLUISH GREEN
CL009	GREEN
CL010	REDDISH GREEN
CL011	GREENISH RED
CL012	PALE RED
CL013	PALE YELLOW
CL014	PALE GREEN
CL015	PALE BLUE

FIG.29

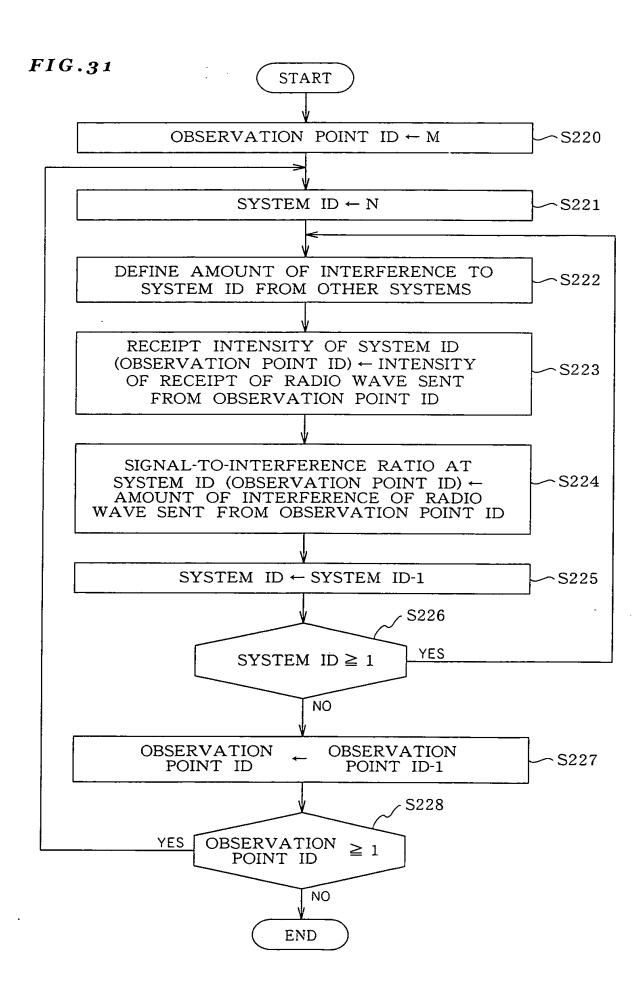
DELAY **VARIANCE**

DELAY VARIANCE	CL006	CL007	CL008	CL009		
THRESHOLD VALUE 3 DELAY VARIANCE THRESHOLD VALUE 2 DELAY VARIANCE THRESHOLD VALUE 1	CL005 CL015		CL014	CL010		
	CL004	CL013	CL012	CL011		
	CL003	CL002	CL001	CL000 RECEIPT ELECTRIC		
RECEIPT RECEIPT RECEIPT POWER						

ELECTRIC ELECTRIC ELECTRIC
POWER POWER POWER
THRESHOLD THRESHOLD
VALUE 1 VALUE 2 VALUE 3

FIG.30

INTERFERENCE DEGRADATION LEVEL RECEIPT POSSIBILITY	LARGE	MIDDLE	SMALL
VERY GOOD	CL002	CL001	CL000
GOOD	CL006	CL005	CL004
POSSIBLE	CL010	CL009	CL008
IMPOSSIBLE	CL014	CL013	CL012



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FIG. 32

ID=2								
SYSTEM ID=2	•	•	•	•	•	•	• • •	
	SENDING POINT CI RATIO	10 dB	5 dB	2 dB	-2 dB	-18 dB	• • •	
SYSTEM ID=1	RECEIPT ELECTRIC POWER	-60 dBm	-65 dBm	-68 dBm	-72 dBm	-88 dBm	• • •	
	TOTAL INTERFERENCE ELECTRIC POWER	-70 dBm	• • •					
OBSERVATION POINT ID			2	3	7	5	• • •	M

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SYSTEM ID=2										FIG.33
-	MIN (TOTAL CI RATIO, SENDING POINT CI RATIO)	INTERFERENCE DEGRADATION LEVEL	10 dB MIDDLE	5 dB LARGE	2 dB LARGE	-2 dB LARGE	-18 dB LARGE	• •		INTERFERENCE DEGRADATION LEVEL FOR TWO-WAY COMMUNICATION BETWEEN SENDING POINT IDENTIFIABLE BY SYSTEM ID AND EACH OBSERVATION POINT
SYSTEM ID=1	TOTAL CI RATIO	шZ	25 dB SMALL	21 dB SMALL	2 dB SMALL	12 dB MIDDLE	-18 dB LARGE	• • •		h INTERFERENCE DEGRADATION LEVEL FOR ONE-WAY COMMUNICATION OF SENDING POINT IDENTIFIABLE BY SYSTEM ID→EACH OBSERVATION POINT
	SENDING POINT CI RATIO	INTERFERENCE DEGRADATION LEVEL	10 dB MIDDLE	5 dB LARGE	2 dB LARGE	-2 dB LARGE	-18 dB LARGE	•••		VCE ION IE-WAY ON OF ATION ERENCE LEVEL DINT ID BY
	OBSERVATION POINT ID		1	2	3	4	5	•••	M	INTERFEREN DEGRADAT DEGRADAT LEVEL FOR ON COMMUNICATI EACH OBSERV POINT→INTERFI DEGRADATION OF SENDING PC ENTIFIABLE SYSTEM I

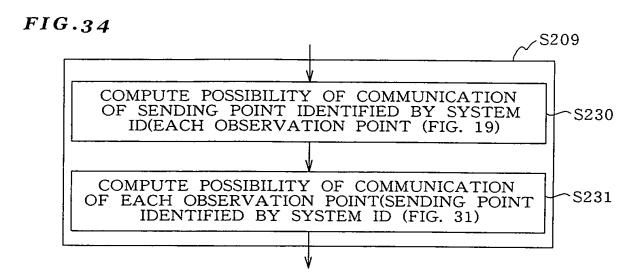


FIG.35

